

IN THE CLAIMS

Please cancel claims 6 and 22 without prejudice, and amend claims 1, 3, 9-10, 12, 16, 19 and 26-28 as follows:

1 1. (Currently Amended) A surveillance and security system for
2 automatic detection and warning of detected events, said system
3 comprising:

4 means for observing behavior in a predetermined area
5 under surveillance;

6 means for processing an output of observed behavior from
7 said means for observing, said means for processing including a
8 pattern recognition means for recognizing whether said observed
9 behavior is associated with predefined suspicious behaviors; and

10 means for notifying that said pattern recognition means
11 recognizes at least one behavioral pattern associated with said set
12 of predefined suspicious behaviors has been observed by said means
13 for observing,

14 wherein said means for notifying includes a plurality of alert
15 codes corresponding to a severity level of said at least one

16 behavioral pattern associated with said set of predefined
17 suspicious behaviors recognized by said pattern recognition means.

1 2. (Original) The system according to Claim 1, wherein said
2 means for observing includes cameras.

1 3. (Currently Amended) ~~The system according to Claim 1~~ A
2 surveillance and security system for automatic detection and
3 warning of detected events, said system comprising:

4 means for observing behavior in a predetermined area under
5 surveillance;

6 means for processing an output of observed behavior from said
7 means for observing, said means for processing including a pattern
8 recognition means for recognizing whether said observed behavior is
9 associated with predefined suspicious behaviors; and

10 means for notifying that said pattern recognition means
11 recognizes at least one behavioral pattern associated with said set
12 of predefined suspicious behaviors has been observed by said means
13 for observing, wherein said means for observing includes at least
14 one sensors located on a shopping cart.

1 4.(Original) The system according to Claim 3, wherein said
2 sensors sense sounds.

1 5.(Original) The system according to Claim 1, wherein said
2 means for notifying includes warning signals communicated to a
3 monitoring site.

Claim 6 (Canceled)

1 7.(Original) The system according to Claim 1, wherein said
2 area under surveillance includes a retail store, and said
3 predefined suspicious behaviors recognized by said pattern
4 recognition means includes recognizing a plurality of people
5 entering the store as one group, said plurality subsequently
6 separating into sub-groups in different portions of the store, and
7 re-emerging as said one group when leaving the store.

1 8.(Original) The system according to Claim 1, wherein said
2 area under surveillance includes a retail store, and said
3 predefined suspicious behaviors recognized by said pattern

4 recognition means includes recognizing that a particular shopper
5 has walked up and down a predetermined number of aisles without
6 selecting an item for purchase.

1 9. (Currently Amended) ~~The system according to Claim 8~~ A
2 surveillance and security system for automatic detection and
3 warning of detected events, said system comprising:

4 means for observing behavior in a predetermined area under
5 surveillance;

6 means for processing an output of observed behavior from said
7 means for observing, said means for processing including a pattern
8 recognition means for recognizing whether said observed behavior is
9 associated with predefined suspicious behaviors; and

10 means for notifying that said pattern recognition means
11 recognizes at least one behavioral pattern associated with said set
12 of predefined suspicious behaviors has been observed by said means
13 for observing,

14 wherein said pattern recognition means further comprises
15 recognizing continuous movement of a head of ~~said~~ a particular
16 shopper for a predetermined amount of time.

1 10. (Currently Amended) The system according to Claim ~~1~~9,
2 wherein said area under surveillance includes a retail store, ~~and~~
3 ~~said pattern recognition means further comprises recognizing~~
4 ~~continuous movement of a head of a particular shopper for a~~
5 ~~predetermined amount of time.~~

1 11. (Original) The system according to Claim 8, wherein said
2 pattern recognition means further comprises recognizing that said
3 particular shopper has spent a predetermined amount of time in the
4 store without selecting an item for purchase.

1 12. (Currently Amended) ~~The system according to Claim 1~~ A
2 surveillance and security system for automatic detection and
3 warning of detected events, said system comprising:
4 means for observing behavior in a predetermined area under
5 surveillance;
6 means for processing an output of observed behavior from said
7 means for observing, said means for processing including a pattern

8 recognition means for recognizing whether said observed behavior is
9 associated with predefined suspicious behaviors; and
10 means for notifying that said pattern recognition means
11 recognizes at least one behavioral pattern associated with said set
12 of predefined suspicious behaviors has been observed by said means
13 for observing,
14 wherein said area under surveillance includes a retail store,
15 and said pattern recognition means further comprises recognizing
16 that a particular shopper is carrying a bag.

1 13.(Original) The system according to Claim 12, wherein said
2 pattern recognition further comprises recognizing that said
3 particular shopper is manipulating the bag.

1 14.(Original) The system according to Claim 1, wherein said
2 area under surveillance includes a retail store and a predetermined
3 area outside of said store, and said pattern recognition means
4 recognizing when a person is in the predetermined area outside of
5 said store for a predetermined amount of time.

1 15.(Original) The system according to Claim 1, wherein said
2 area under surveillance includes a retail store, and said pattern
3 recognition means recognizes that a particular shopper is wearing a
4 coat when an outside temperature is greater than a predetermined
5 value.

1 16.(Currently Amended) A method for surveillance and
2 detection of suspicious behavior, said method comprising the steps
3 of:

4 (a) observing behavior of a person in a predetermined
5 area under surveillance;

6 (b) identifying whether the behavior observed in step (a)
7 is associated with at least one of a plurality of predetermined
8 suspicious behaviors by comparing the behavior observed with a
9 plurality of predetermined behavioral patterns in a pattern
10 recognition module;

11 (c) notifying security when the behavior observed has
12 been identified as being associated with at least one of the
13 plurality of predetermined behavioral patterns in the recognition
14 module.

15 wherein the notifying in step (a) includes providing an alert
16 code selected from a plurality of alert codes indicating a severity
17 of said one of the predetermined behavioral patterns recognized by
18 the pattern recognition module.

1 17.(Original) The method according to Claim 16, further
2 comprising: (d) increasing surveillance of said person whose
3 behavior was observed in step (a) upon notification of security in
4 step (c).

1 18.(Original) The method according to Claim 16, wherein the
2 behavior is observed in step (a) with cameras.

1 19.(Currently Amended) ~~The method according to Claim 16~~ A
2 method for surveillance and detection of suspicious behavior, said
3 method comprising the steps of:

4 (a) observing behavior of a person in a predetermined area
5 under surveillance;

6 (b) identifying whether the behavior observed in step (a) is
7 associated with at least one of a plurality of predetermined

8 suspicious behaviors by comparing the behavior observed with a
9 plurality of predetermined behavioral patterns in a pattern
10 recognition module;

11 (c) notifying security when the behavior observed has been
12 identified as being associated with at least one of the plurality
13 of predetermined behavioral patterns in the recognition module,
14 wherein the behavior is observed in step (a) with at least one
15 sensors located on a shopping cart.

1 20.(Original) The method according to Claim 19, wherein the
2 sensors sense sounds.

1 21.(Original) The method according to Claim 16, wherein the
2 notifying includes providing warning signals to a monitoring site.

Claim 22 (Canceled)

1 23.(Original) The method according to Claim 16, wherein at
2 least one of the predetermined behavioral patterns in the
3 recognition module includes recognizing when a plurality of people

4 enter the area under surveillance as a single group, subsequently
5 separate into sub-groups while moving through the area under
6 surveillance, and subsequently re-emerging as said single group
7 when leaving the store.

1 24.(Original) The method according to Claim 16, wherein the
2 area under surveillance is a retail store, and at least one of the
3 predetermined behavioral patterns in said pattern recognition
4 module includes recognizing when a particular shopper has walked up
5 a down a predetermined number of aisles without selecting an item
6 for purchase.

1 25.(Original) The method according to Claim 16, wherein the
2 area under surveillance is a retail store, and at least one of
3 predetermined behavioral patterns in said pattern recognition
4 module includes recognizing when a particular shopper has stayed in
5 one aisle for a predetermined amount of time without selecting an
6 item for purchase.

1 26. (Currently Amended) ~~The method according to Claim 16A~~
2 method for surveillance and detection of suspicious behavior, said
3 method comprising the steps of:

4 (a) observing behavior of a person in a predetermined area
5 under surveillance;

6 (b) identifying whether the behavior observed in step (a) is
7 associated with at least one of a plurality of predetermined
8 suspicious behaviors by comparing the behavior observed with a
9 plurality of predetermined behavioral patterns in a pattern
10 recognition module;

11 (c) notifying security when the behavior observed has been
12 identified as being associated with at least one of the plurality
13 of predetermined behavioral patterns in the recognition module,

14 wherein one of the predetermined behavioral patterns in said
15 pattern recognition module includes recognizing movement of a head
16 for a predetermined amount of time by a person in the area under
17 surveillance.

1 27. (Currently Amended) ~~The method according to Claim 25A~~
2 method for surveillance and detection of suspicious behavior, said
3 method comprising the steps of:

4 (a) observing behavior of a person in a predetermined area
5 under surveillance;

6 (b) identifying whether the behavior observed in step (a) is
7 associated with at least one of a plurality of predetermined
8 suspicious behaviors by comparing the behavior observed with a
9 plurality of predetermined behavioral patterns in a pattern
10 recognition module;

11 (c) notifying security when the behavior observed has been
12 identified as being associated with at least one of the plurality
13 of predetermined behavioral patterns in the recognition module,

14 wherein the area under surveillance is a retail store, and at
15 least one of predetermined behavioral patterns in said pattern
16 recognition module includes recognizing when a particular shopper
17 has stayed in one aisle for a predetermined amount of time without
18 selecting an item for purchase , and

19 wherein one of the predetermined behavioral patterns in said
20 pattern recognition module includes recognizing movement of a head
21 for a predetermined amount of time by the particular shopper.

1 28. (Currently Amended) ~~The method according to Claim 16~~ A
2 method for surveillance and detection of suspicious behavior, said
3 method comprising the steps of:

4 (a) observing behavior of a person in a predetermined area
5 under surveillance;

6 (b) identifying whether the behavior observed in step (a) is
7 associated with at least one of a plurality of predetermined
8 suspicious behaviors by comparing the behavior observed with a
9 plurality of predetermined behavioral patterns in a pattern
10 recognition module;

11 (c) notifying security when the behavior observed has been
12 identified as being associated with at least one of the plurality
13 of predetermined behavioral patterns in the recognition module,

14 wherein the area under surveillance is a retail store, and
15 wherein one of the predetermined behavioral patterns in said

16 pattern recognition module includes recognizing that a particular
17 shopper is carrying a bag.

1 29.(Original) The method according to Claim 28, wherein one
2 of the predetermined behavioral patterns in said pattern
3 recognition module includes recognizing that said particular
4 shopping is manipulating the bag.

1 30.(Original) The method according to Claim 16, wherein the
2 area under surveillance is a store, and wherein one of the
3 predetermined behavioral patterns in said pattern recognition
4 module includes recognizing that a particular shopper is wearing a
5 coat when an outside temperature is above a predetermined amount.

1 31.(Original) The method according to Claim 16, wherein the
2 area under surveillance comprises an interior portion and an
3 exterior portion of a store, and wherein one of the predetermined
4 behavioral patterns in said pattern recognition module includes
5 recognizing when a particular person has been in the exterior
6 portion of the store for a predetermined amount of time.